

Drones in Business: Can your Organisation Capitalise on this New Technology?

Dr. Jo Kuzma – UoW – Computing Subject Group Leader

Andrew Robinson – UoW – Lecturer Consultant

Kate Dobson – UoW – Lecturer Consultant

Neil Williams – Resource Group - Head of Unmanned Aviation Services

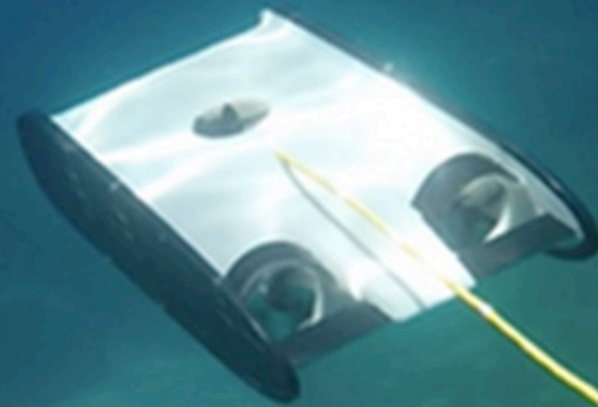
Agenda

1. Commercial opportunities
2. Legal implications and issues
3. Flying legally and training
4. Q&A - research and collaborative opportunities
5. Drone Demo

Terms

- **UAV** – Unmanned Aerial Vehicle
an aircraft without a human pilot on board
- **UAS** – unmanned aerial system
includes aircraft plus elements other than the aircraft such as ground control stations, data links and other support equipment
- **Drone** – public often uses this term for UAV

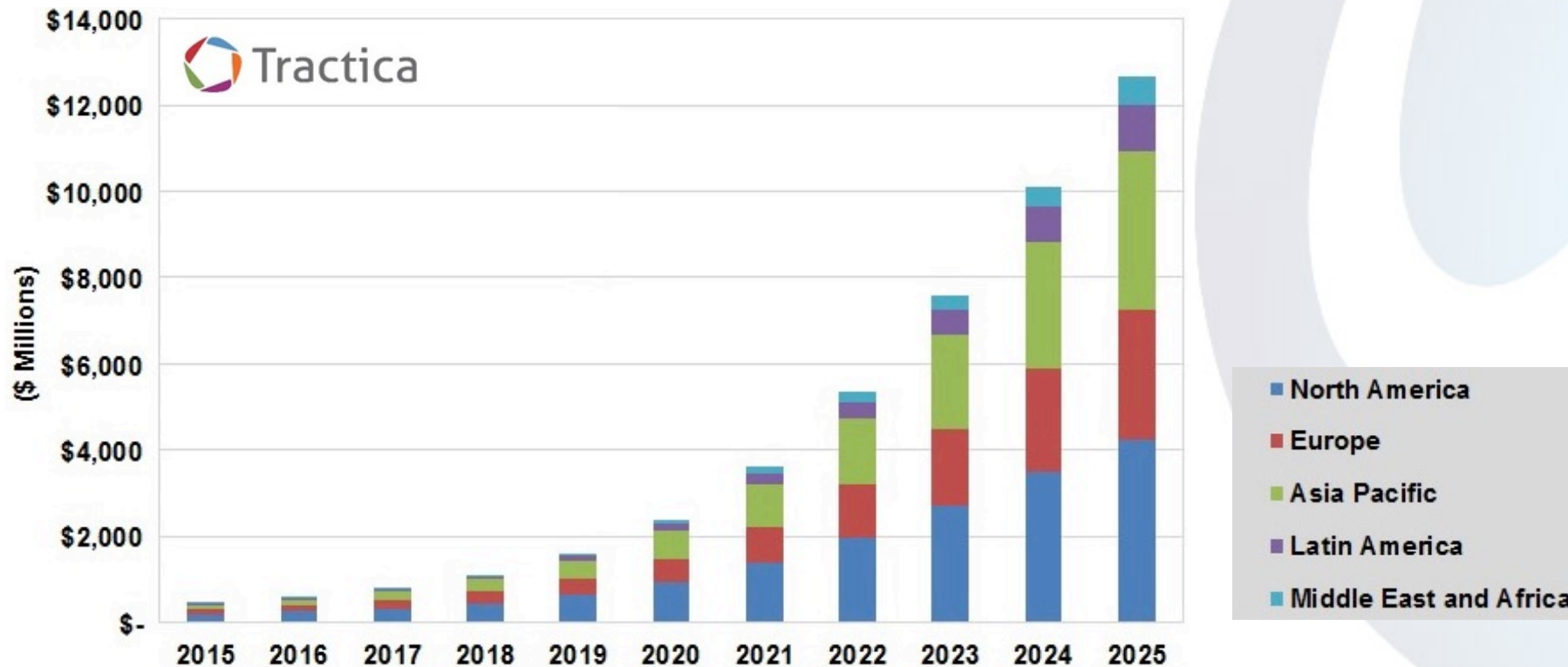
Drones are not always UAVs



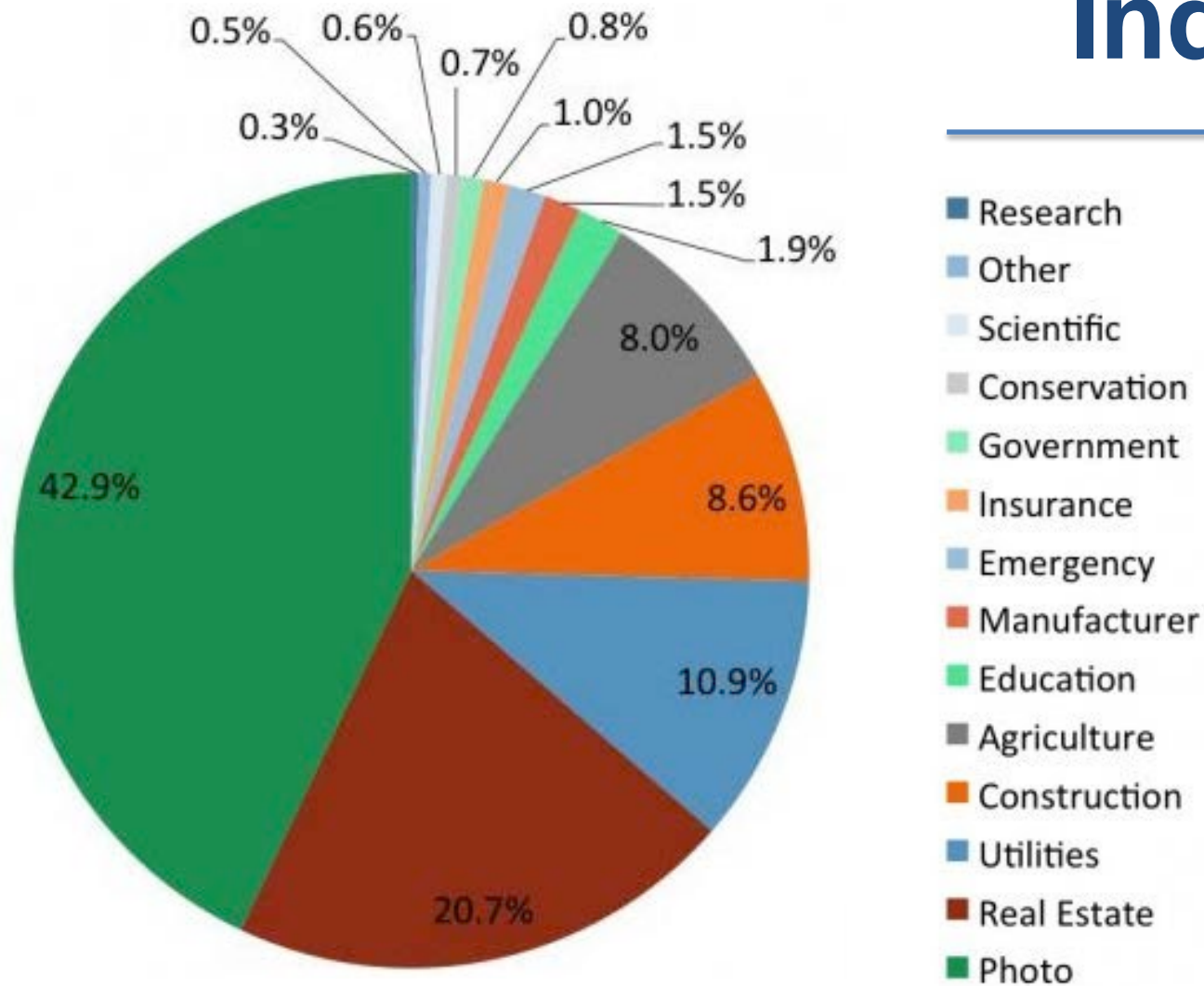
Drones are not always UAVs



Commercial Drone Revenue (2015 – 2025)



Industries Using Drones



Some Commercial Uses for Drones

Photography / Marketing
Real Estate
Public service / Emergency Response
Journalism
Agriculture
Surveying
Entertainment
Sports
Communications
Delivery

Photography / Marketing



Real Estate

[Home](#) [About us](#) [Research](#) [Blogs](#) [News](#) [Recruitment](#) [Contact us](#)

Site search



[My Knight Frank](#)



RESIDENTIAL PROPERTY ▾

COMMERCIAL PROPERTY ▾

INVESTMENT ▾

DEVELOPMENT ▾

Language: **English** ▾

Country: **Global** ▾

◀ Back

< 16/246 >

House for sale in Ferry Lane, Medmenham, Marlow, Buckinghamshire, SL7 - UK

offers in excess of **£10,000,000** ▾

£10,000,000

► Financing options



9-11



9



6



42.10ac
17.04ha

- ◆ 9-11 bedrooms
- ◆ 6 reception rooms
- ◆ 9 bathrooms
- ◆ 1,202 - 1,438 sqm
- ◆ 12,938 - 15,479 sqft
- ◆ Outbuildings
- ◆ Period
- ◆ Garden
- ◆ Land
- ◆ Listed
- ◆ Secondary accommodation
- ◆ Waterside
- ◆ 42.10 acres (17.04 hectares)

Contact agent

Save property

Public Sector / Emergency Response



Public Sector / Emergency Response

MIDWEST

Predator drone helps convict North Dakota farmer in first case of its kind

Published January 28, 2014 • FoxNews.com



What began as a wild west-style cattle-stealing case may have ushered in a brave new world of law enforcement officials using drones to gather evidence to put Americans behind bars.

In the first-ever case of a U.S. citizen being convicted and sentenced to prison based in part on evidence gathered by a drone, Lakota, N.D., farmer Rodney Brossart got a three-year sentence for his role in an armed standoff with police that began after he was accused of stealing his neighbors' stray cattle in 2011.

Brossart was arrested on June 23, 2011, but his family refused at gunpoint to let authorities armed with a search warrant onto their 3,600-acre property to

More from Fox News



Remains of German U-boat found off



Renee Zellweger forgot she was



Accused teen 'doctor' arrested on



Philippine leader rejects joint patrols,



Kate Upton calls Dolphins' national



Terrified flier saves girlfriend, pushes



Wardrobe whoopsies: On



Porn star Mia Khalifa takes down

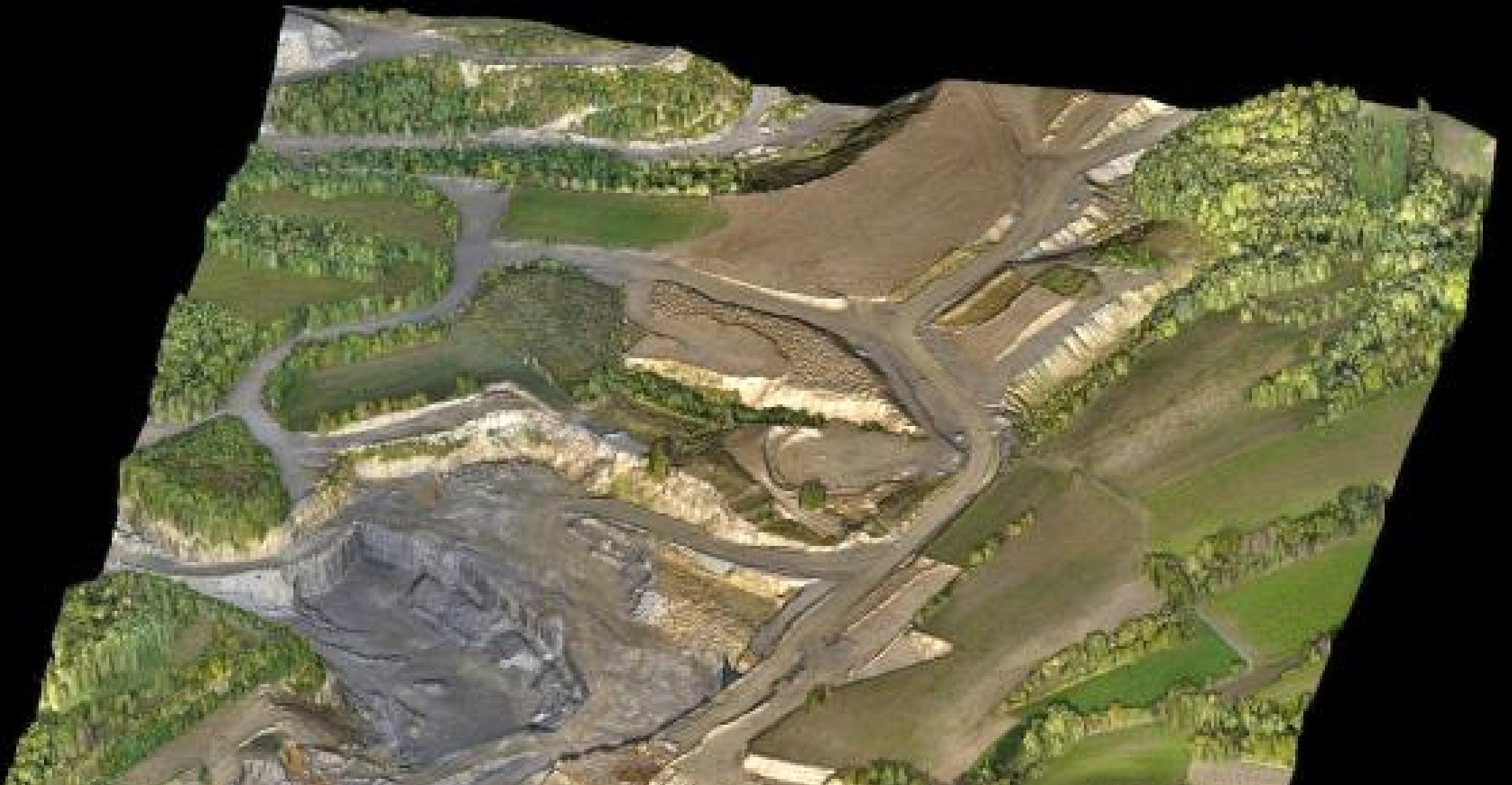
Journalism



Agriculture



Agriculture





RSPSoc

remote sensing & photogrammetry society

[Join RSPSoc](#) [Contact Us](#)

[Home](#)

[Subscribe to RSPSoc](#)

[RSPSoc Events](#)

[Learning Zone](#)

[SIGs](#)

[News](#)

[Calendars](#)

[Gallery](#)

[Publications](#)

[About Us](#)

SPECIAL OFFER !!

For 2016 only, Taylor & Francis are offering members of RSPSoc **open access publication in the International Journal of Remote Sensing and Remote Sensing Letters** for only £485 / €667 / \$800, a **73% discount** on the standard article processing charge (APC).
[More details here](#)

The Big Picture

Professor Ste...



UAVs for Airborne survey - challenges of flying in urban areas

Welcome to RSPSoc

RSPSoc is the UK's leading Society for remote sensing and photogrammetry and their application to education, science, research, industry, commerce and the public service.

As a charity, its remit is to inform and educate its members and the public. It supports

Join RSPSoc

to receive publications,
discounts, grants
and access to resources
[click here for details](#)

Abstracts and Deadlines

**Friday, 30
September**

[Registration: EuroMe](#)

Saturday, 1 October

[Abstract: 10th MMT](#)

*Displaying events
until 15/11.*

[Look for more](#)

Entertainment



Sports



Communications



Communications

☰

AH AndroidHeadlines

Deals

Jobs

Android App Review Service

Newsletter

Follow Us

G+

f

at&t

AH

AT&T Outline Plans To Use Drones For Mobile Cell Sites

July 13, 2016 - Written By David Steele

Today's cellular networks are built to handle somewhere higher than the expected usual capacity of a given area. Operators – **cellular carriers** – design their network to operate as combinations of individual cell sites and clusters of sites that work in conjunction and are able to fine tune their network by adjusting the power output and direction of particular cell sites. There are different size (and capacity) cell sites, ranging from those designed to cover part of a building or floor through to

Social Media Followers

<div>f</div> 1.2M	<div></div> 380.3K
<div>G+</div> 367.2K	<div></div> 40.4K
<div>p</div> 11.7K	<div>in</div> 15K
<div></div> 60.6K	<div></div> 15.6K

Recent News

RBS, NatWest and Santander Now Support Android Pay in the UK

Nixon's Mission Android Wear Watch Available to Pre-Order

Pre-Order The Xperia XZ In Europe And Get Free Headphones

Galaxy Note 7 Shrinks Samsung's Market Value by \$26 Billion

Recent Reviews

Review: BLU Vivo 5R

Review: Meizu MX6

Review: Nubia Z11 Android Smartphone

Spraying Hornet Nests



Delivery



Delivery

BBC Sign in News Sport Weather iPlayer TV Radio More Search

NEWS Find local news

Home UK World Business Politics Tech Science Health Education Entertainment & Arts Video & Audio More

Business Your Money Market Data Markets Companies Economy

New trials for delivering goods by drones

By Richard Westcott
Transport correspondent, BBC News

26 July 2016 Business [Share](#)



[Drones delivering our shopping could become a reality across Britain, says Richard Westcott](#)

The government's getting together with the retail giant Amazon to start testing flying drones that can deliver parcels to your door.

Amazon's paying for the programme, which will look at the best way to allow hundreds of robotic aircraft to buzz around Britain's skies safely.

Top Stories

Hottest September day since 1911
The UK experiences its highest September temperature in 105 years, with 34.4C recorded in Kent.
1 hour ago

MPs' seats face axe in boundary review
1 hour ago

Mel and Sue to quit as Bake Off hosts
10 minutes ago

Features



Setting new rules
The school pupils tackling sexual harassment head-on



Delivery

The company claims it'll eventually mean small parcels will arrive at your house within 30 minutes of ordering them online.

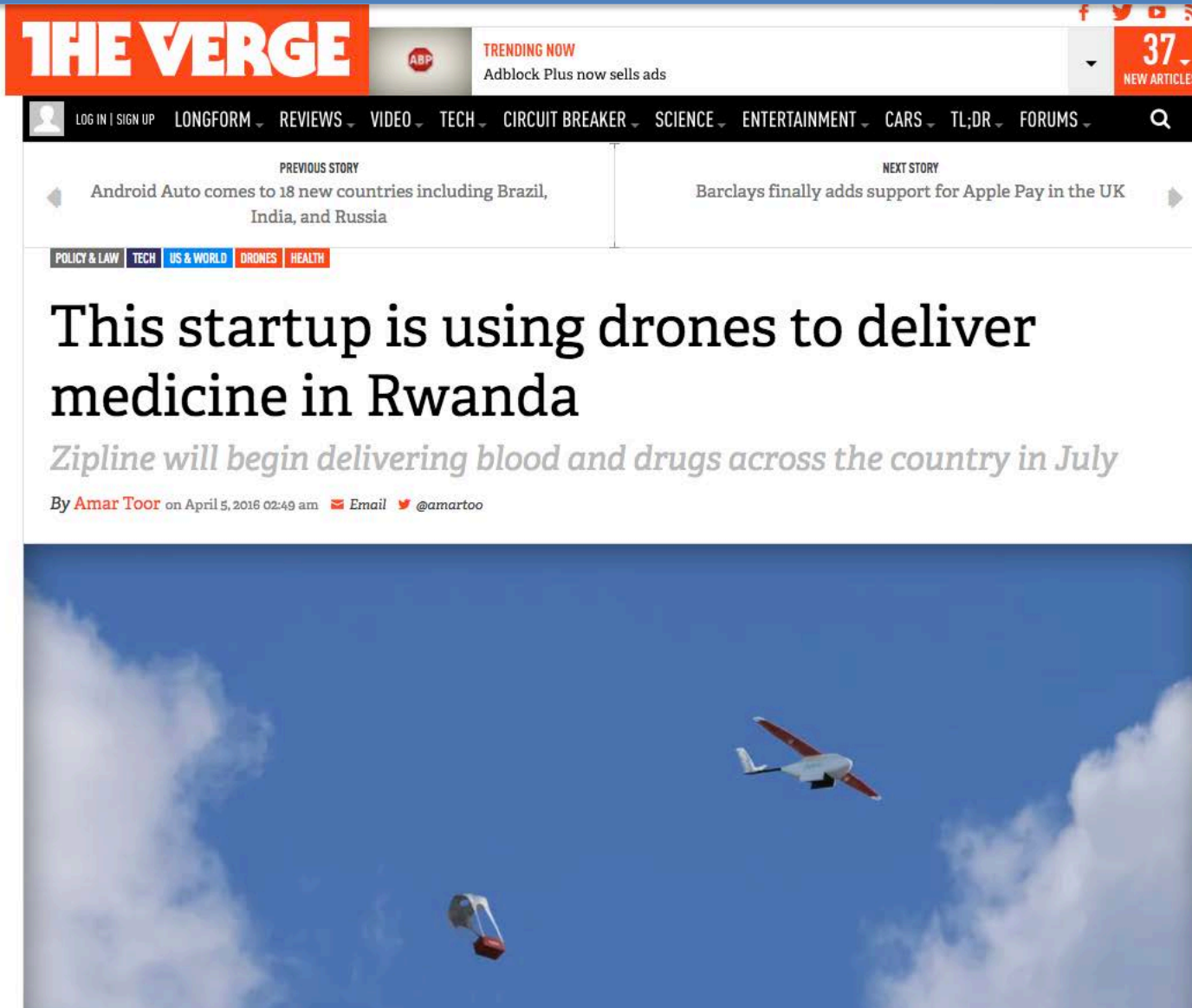
Ministers say they want to pave the way for all businesses to start using the technology in future, but they will still have to convince the public that having automated drones flying around is both safe and won't invade people's privacy.

Three big problems

The trials will look at cracking three big problems:

- How can you operate drones safely beyond "line of sight"? The current rules say a pilot has to be able to see the aircraft at all times
- How can you build a drone that won't bump into things? Much like autonomous cars it would need sensors to help it avoid objects
- How can you build a system where one pilot is responsible for many drones?

Medicine Delivery



Drone Issues

- 1. Privacy**
2. Public Opinion
3. Security (Hacking)
4. Criminal Use
5. Regulations

Privacy



Privacy

Google Streetview



Privacy

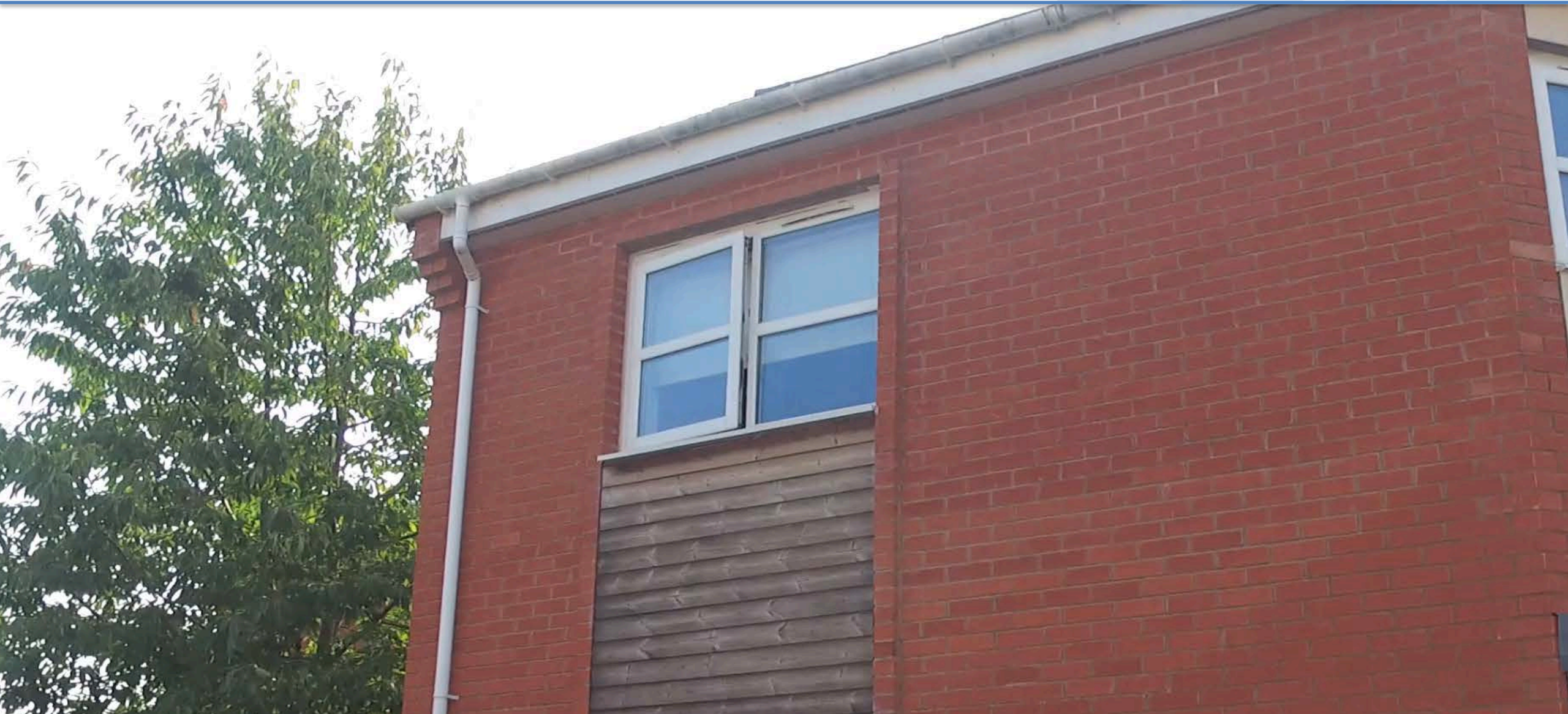


Privacy

Cheerson CX-10HW Drone (£45)



Privacy



Privacy



DJI Phantom 3 Standard (£449)

Privacy



Privacy

iPhone 6



Drone Issues

1. Privacy
- 2. Public Opinion**
3. Security (Hacking)
4. Criminal Use
5. Regulations

Public Opinion





POLL: Conservators set to ban drones from the skies above the Malvern Hills



A drone-racing course set up on Castlemorton Common in March. Picture by Duncan Bridges.

15 Jul 2016 / Robert Hale



Most popular

- 1 Police called to row
- 2 Arrest after assault involving adult and child near school
- 3 Police helicopter called in to hunt for intruders
- 4 How will Worcester cope with a 2,200-home 'super village'?
- 5 Witness spots stolen hot tub being towed away
- 6 VIDEO: Thunderstorms and heavy downpours on predicted "hottest day"
- 7 Cup of cola thrown over a man at bus stop
- 8 Woman fined for shoplifting at Lidl
- 9 Dahlicious dressing up fun celebrates 100 years since birth of Roald Dahl
- 10 Woman hit by car outside supermarket
- 11 SPECIAL REPORT: Changes to Worcestershire MPs' boundaries revealed - what does it all mean?
- 12 Tickets selling fast for the Flying Scotsman at Severn Valley Railway
- 13 Worcester Warriors' red-carded forward Alafoti Fa'osiliva will appear before Rugby Football Union disciplinary panel
- 14 UPDATED: Travellers move into Pitmaston Park raising concerns about repeat of last year's

Public Opinion

POLL: Conservators set to ban drones from the skies above the Malvern Hills



A drone-racing course set up on Castlemorton Common in March. Picture by Duncan Bridges.

15 Jul 2016 / [Robert Hale](#)



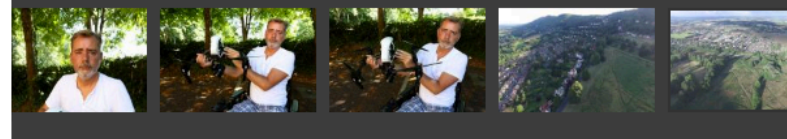
Most popular

- 1 Police called to row
- 2 Arrest after assault involving adult and child near school
- 3 Police helicopter called in to hunt for intruders
- 4 How will Worcester cope with a 2,200-home 'super village'?
- 5 Witness spots stolen hot tub being towed away
- 6 VIDEO: Thunderstorms and heavy downpours on predicted "hottest day"
- 7 Cup of cola thrown over a man at bus stop
- 8 Woman fined for shoplifting at Lidl
- 9 Dahlicious dressing up fun celebrates 100 years since birth of Roald Dahl
- 10 Woman hit by car outside supermarket
- 11 SPECIAL REPORT: Changes to Worcestershire MPs' boundaries revealed - what does it all mean?
- 12 Tickets selling fast for the Flying Scotsman at Severn Valley Railway
- 13 Worcester Warriors' red-carded forward Alafoti Fa'osiliva will appear before Rugby Football Union disciplinary panel
- 14 UPDATED: Travellers move into Pitmaston Park raising concerns about repeat of last year's

Conservators' Malvern Hills drone ban 'ludicrous', says flyer



Malvern Wells Common. Picture by David Prosser.



22 Jul 2016 / [Robert Hale](#)



DRONE pilots have hit back against a bid to ban them from flying their machines over the Malvern Hills.

Members of Malvern Hills Conservators have voted in favour of pushing through a ban on the remotely-piloted vehicles entering the airspace above its land.

But pilots have labelled the move "ludicrous" and misguided and say responsible drone users are being punished for the actions of a reckless few.

Currently, drones can be flown over Conservators-owned land as long as they take off and

Most popular

- 1 Police called to row
- 2 Arrest after assault involving adult and child outside school
- 3 Police helicopter called in to hunt for intruders
- 4 Witness spots stolen hot tub being towed away
- 5 How will Worcester cope with a 2,200-home 'super village'?
- 6 VIDEO: Thunderstorms and heavy downpours on predicted "hottest day"
- 7 Cup of cola thrown over a man at bus stop
- 8 Woman fined for shoplifting at Lidl
- 9 Woman hit by car outside supermarket
- 10 Tickets selling fast for the Flying Scotsman at Severn Valley Railway
- 11 Dahlicious dressing up fun celebrates 100 years since birth of Roald Dahl
- 12 UPDATED: Travellers move into Pitmaston Park raising concerns about repeat of last year's problems
- 13 Extra costs for Worcester's Cathedral Square will be worth it, insists council
- 14 US woman who lives in Malvern should stay in UK says judge
- 15 SPECIAL REPORT: Changes to Worcestershire MPs' boundaries

POLL: Conservators set to ban drones from the skies above the Malvern Hills



A drone-racing course set up on Castlemorton Common in March. Picture by Duncan Bridges.

15 Jul 2016 / [Robert Hale](#)

[f](#)
[t](#)
[G+](#)
[in](#)
[p](#)
[w](#)
[e](#)
[51 comments](#)

Your vote

Do you agree with a ban on drones on the Malvern Hills?



DRONES look set to be banned from the Malvern Hills and surrounding commons

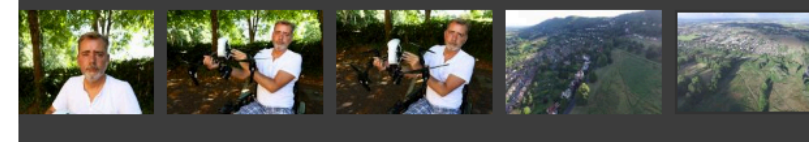
Most popular

- 1 Police called to row
- 2 Arrest after assault involving adult and child near school
- 3 Police helicopter called in to hunt for intruders
- 4 How will Worcester cope with a 2,200-home 'super village'?
- 5 Witness spots stolen hot tub being towed away
- 6 VIDEO: Thunderstorms and heavy downpours on predicted "hottest day"
- 7 Cup of cola thrown over a man at bus stop
- 8 Woman fined for shoplifting at Lidl
- 9 Dahlicious dressing up fun celebrates 100 years since birth of Roald Dahl
- 10 Woman hit by car outside supermarket
- 11 SPECIAL REPORT: Changes to Worcestershire MPs' boundaries revealed - what does it all mean?
- 12 Tickets selling fast for the Flying Scotsman at Severn Valley Railway
- 13 Worcester Warriors' red-carded forward Alafoti Fa'osiliva will appear before Rugby Football Union disciplinary panel
- 14 UPDATED: Travellers move into Pitmaston Park raising concerns about repeat of last year's

Conservators' Malvern Hills drone ban 'ludicrous', says flyer



Malvern Wells Common. Picture by David Prosser.



22 Jul 2016 / [Robert Hale](#)

[f](#)
[t](#)
[G+](#)
[in](#)
[p](#)
[w](#)
[e](#)
[23 comments](#)

DRONE pilots have hit back against a bid to ban them from flying their machines over the Malvern Hills.

Members of Malvern Hills Conservators have voted in favour of pushing through a ban on the remotely-piloted vehicles entering the airspace above its land.

But pilots have labelled the move "ludicrous" and misguided and say responsible drone users are being punished for the actions of a reckless few.

Currently, drones can be flown over Conservators-owned land as long as they take off and

Most popular

- 1 Police called to row
- 2 Arrest after assault involving adult and child outside school
- 3 Police helicopter called in to hunt for intruders
- 4 Witness spots stolen hot tub being towed away
- 5 How will Worcester cope with a 2,200-home 'super village'?
- 6 VIDEO: Thunderstorms and heavy downpours on predicted "hottest day"
- 7 Cup of cola thrown over a man at bus stop
- 8 Woman fined for shoplifting at Lidl
- 9 Woman hit by car outside supermarket
- 10 Tickets selling fast for the Flying Scotsman at Severn Valley Railway
- 11 Dahlicious dressing up fun celebrates 100 years since birth of Roald Dahl
- 12 UPDATED: Travellers move into Pitmaston Park raising concerns about repeat of last year's problems
- 13 Extra costs for Worcester's Cathedral Square will be worth it, insists council
- 14 US woman who lives in Malvern should stay in UK says judge
- 15 SPECIAL REPORT: Changes to Worcestershire MPs' boundaries

Public Opinion

Malvern Gazette

Malvern 25°C

NEWS SPORT JOBS E-EDS WHAT'S ON PROPERTY ANNOUNCEMENTS CARS LOCAL INFO EDUCATION SECTIONS

News > Malvern Community News Regional National Business

Malvern Hills Conservators accept invitation to find out more about drones at festival of innovation, despite push for a ban

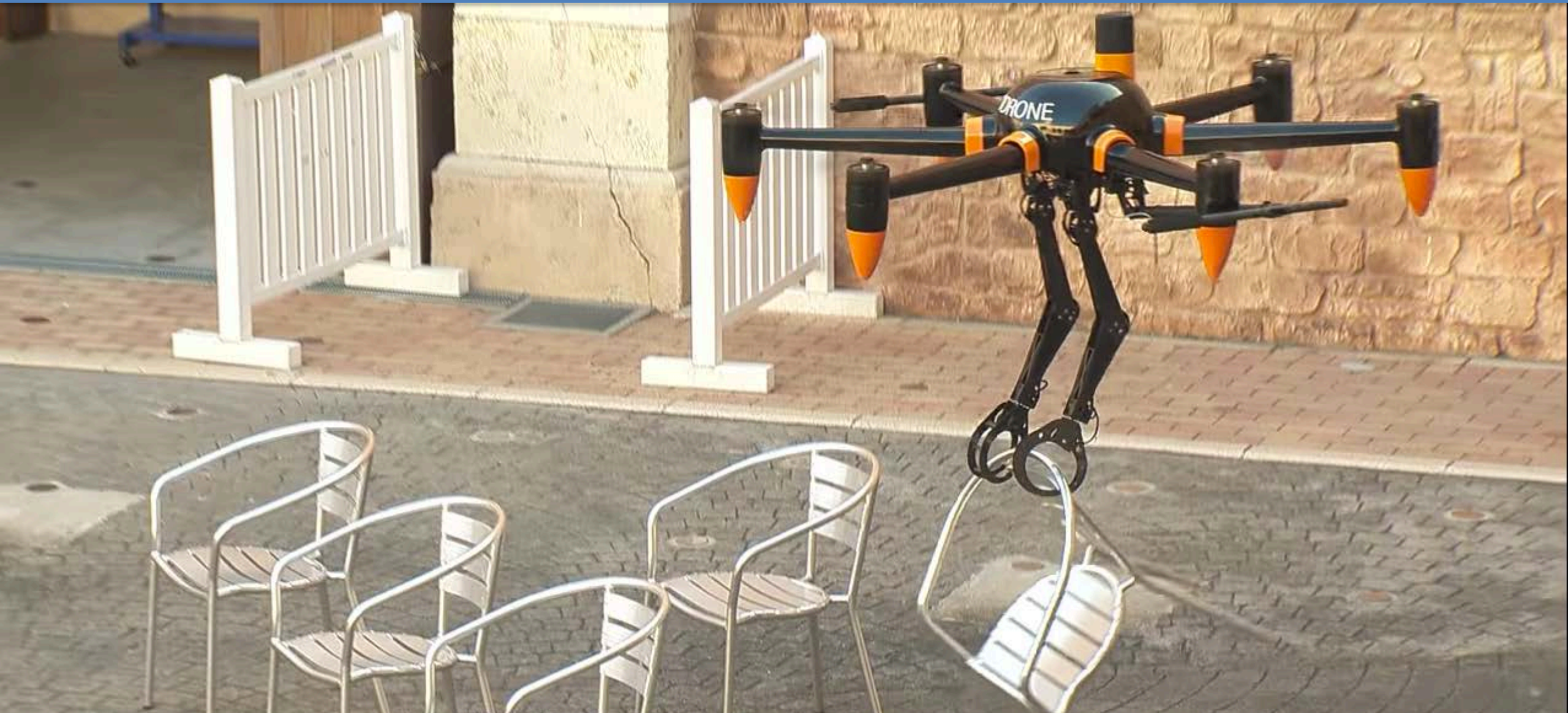


Eye in the sky: drones f-have many legitimate uses, say festival organisers.

Most popular

- 1 Cup of coke thrown over a man in Malvern
- 2 How will Worcester cope? Fears over £500m city 'super village'
- 3 Council reveals £1.4 million plan for new HQ in Malvern
- 4 Nightspot raises funds for children of Malvern mum who has died
- 5 Tickets selling fast for the Flying Scotsman at Severn Valley Railway
- 6 SPECIAL REPORT: Changes to Worcestershire MPs' boundaries revealed - what does it all mean?
- 7 Police helicopter called in to hunt for intruders
- 8 Extra costs for Worcester's Cathedral Square will be worth it, insists council
- 9 From our archive: Hare Krishna make themselves at home at Croome Court
- 10 Witness spots stolen hot tub being towed towards Bromsgrove
- 11 Dahlicious dressing up fun celebrates 100 years since birth of Roald Dahl
- 12 Stabbed teenager left bleeding to

Public Opinion



Drone Issues

1. Privacy
2. Public Opinion
- 3. Security (Hacking)**
4. Criminal Use
5. Regulations

Technology

Police drone can be hacked with \$40 kit, says researcher

2 March 2016 Technology

Share



A security researcher has reported finding a way to hijack a high-end drone, using parts costing as little as \$40 (£29).

The expert says it is possible to start the octocopter's engines, engage auto-takeoff, control its camera and, potentially, crash the machine.

He will present his findings at the RSA security conference in San Francisco, and has published a thesis.

The drone's manufacturer has been informed.

Top Stories

MPs attack Cameron over Libya 'collapse'

Britain's 2011 military intervention in Libya was based on "erroneous assumptions", according to MPs who blame ex-PM David Cameron for the lack of a coherent strategy.

2 hours ago

Care workers sue in minimum wage battle

8 hours ago

No 'Brexit effect' in latest jobs data

4 minutes ago

Features



School quiz

Grammar, comp or private - where did celebs go?



Security (Hacking)

Security (Hacking)



A photograph released by the Iraqi Ministry of Defence on 10 October shows one of the Iraqi Army's CH-4 UAVs armed with what appear to be an AR-1 laser-guided missile and FT-9 guided bomb. Source: Iraqi MoD

Drone Issues

1. Privacy
2. Public Opinion
3. Security (Hacking)
- 4. Criminal Use**
5. Regulations

Criminal Use

BBC Sign in News Sport Weather iPlayer TV Radio More Search

NEWS Find local news


Home UK World Business Politics Tech Science Health Education Entertainment & Arts Video & Audio More

England Regions London

Drones seized over HMP Pentonville carrying drugs and phones

22 August 2016 London

Share



MET POLICE

The drones were being flown around HMP Pentonville over the weekend of 12-14 August

LIVE BBC London Live: Latest
1 hour ago
Sanchez saves point for Arsenal against PSG in Champions League

Top Stories

Juncker plans EU military headquarters
The EU needs a military headquarters to work towards a common military force, Commission President Jean-Claude Juncker tells MEPs.
36 minutes ago

MPs attack Cameron over Libya 'collapse'
3 hours ago

Celestial mapper plots a billion stars
2 hours ago

Drone Issues

1. Privacy
2. Public Opinion
3. Security (Hacking)
4. Criminal Use
- 5. Regulations**

Regulations

Vary from country to country

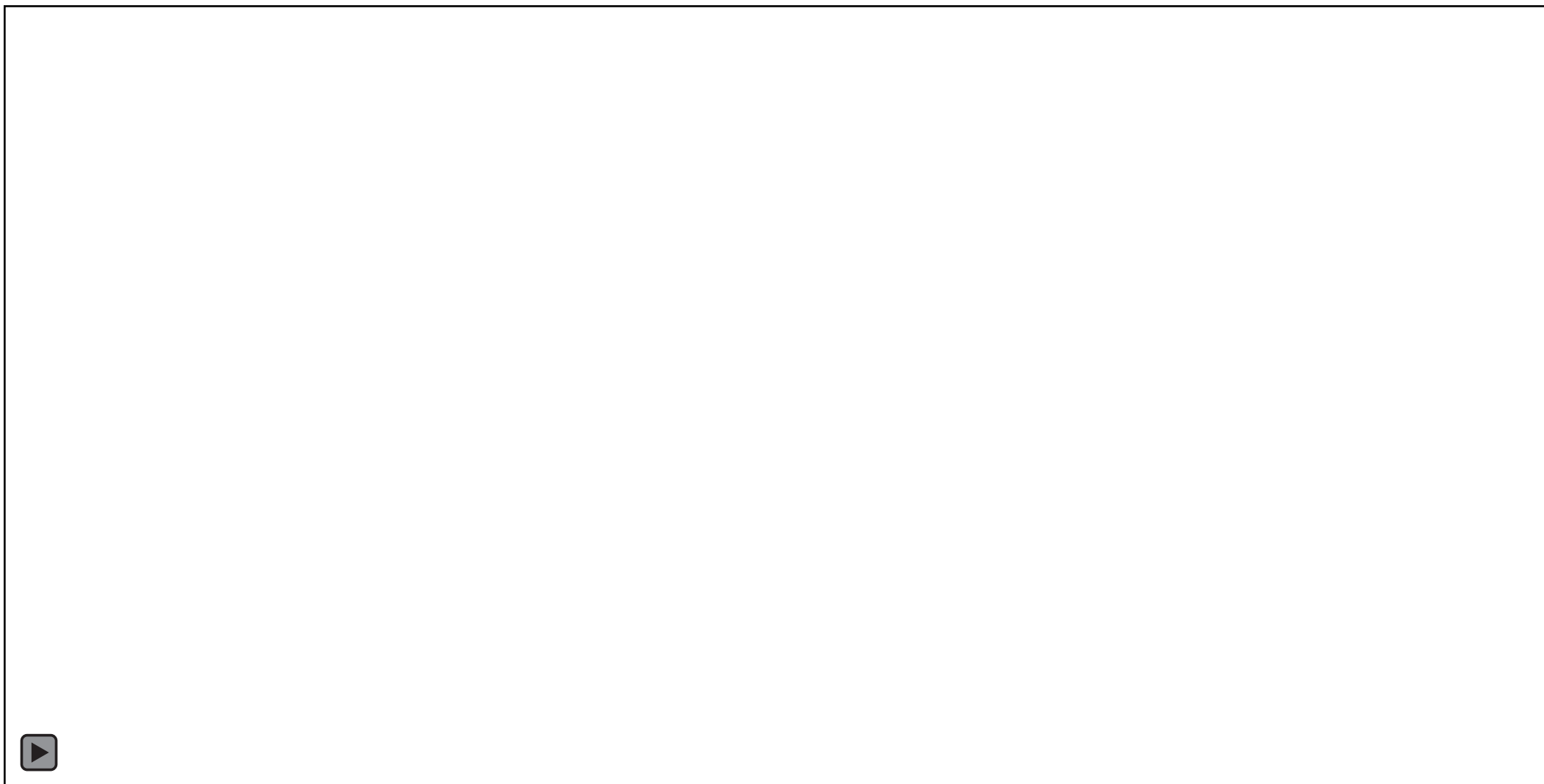
Often designed for older technology

Fiendishly complicated – talk to an expert

UAV Pilot Training & Qualifications Permission for Aerial Work (PFAW)

Neil Williams Resource Group
Head of Unmanned Aviation Services







Legislation, Regulation and Policy



- UK CIVIL AVIATION AUTHORITY
- Air Navigation Order and the Regulations (CAP 393 2016)
- Unmanned Aircraft System Operations in UK Airspace Guidance (CAP 722)

The path to a Permission to Operate

- “Permission For Aerial Work” Issued by the CAA



Air Navigation Order

Small unmanned aircraft

94.—(1) A person must not cause or permit any article or animal (whether or not attached to a parachute) to be dropped from a small unmanned aircraft so as to endanger persons or property.

(2) The person in charge of a small unmanned aircraft may only fly the aircraft if reasonably satisfied that the flight can safely be made.

(3) The person in charge of a small unmanned aircraft must maintain direct, unaided visual contact with the aircraft sufficient to monitor its flight path in relation to other aircraft, persons, vehicles, vessels and structures for the purpose of avoiding collisions.

(4) The person in charge of a small unmanned aircraft which has a mass of more than 7kg excluding its fuel but including any articles or equipment installed in or attached to the aircraft at the commencement of its flight, must not fly the aircraft—

(a) in Class A, C, D or E airspace unless the permission of the appropriate air traffic control unit has been obtained;

(b) within an aerodrome traffic zone during the notified hours of watch of the air traffic control unit (if any) at that aerodrome unless the permission of any such air traffic control unit has been obtained; or

(c) at a height of more than 400 feet above the surface unless it is flying in airspace described in sub-paragraph (a) or (b) and in accordance with the requirements for that airspace.

(5) The person in charge of a small unmanned aircraft must not fly the aircraft for the purposes of commercial operations except in accordance with a permission granted by the CAA.



Air Navigation Order

Small unmanned surveillance aircraft

95.—(1) The person in charge of a small unmanned surveillance aircraft must not fly the aircraft in any of the circumstances described in paragraph (2) except in accordance with a permission issued by the CAA.

(2) The circumstances referred to in paragraph (1) are—

(a) over or within 150 metres of any congested area; Document Generated: 2016-07-20 Status: This is the original version (as it was originally made). This item of legislation is currently only available in its original format.

(b) over or within 150 metres of an organised open-air assembly of more than 1,000 persons;

(c) within 50 metres of any vessel, vehicle or structure which is not under the control of the person in charge of the aircraft; or

(d) subject to paragraphs (3) and (4), within 50 metres of any person.

(3) Subject to paragraph (4), during take-off or landing, a small unmanned surveillance aircraft must not be flown within 30 metres of any person.

(4) Paragraphs (2)(d) and (3) do not apply to the person in charge of the small unmanned surveillance aircraft or a person under the control of the person in charge of the aircraft.

(5) In this article, “a small unmanned surveillance aircraft” means a small unmanned aircraft which is equipped to undertake any form of surveillance or data acquisition.



NQE – Training

- The CAA also requires the submission and acceptance of an operations (OSC) manual in each case before the permission itself can be granted.
- Recommendations from approved NQEs used to grant a 'standard' Permission for Aerial Work.
No prior formal pilot qualifications or experience.
- See CAP 722 Civil UAS Remote Pilot Competency & Page 46 Course Content Page 156
- <https://www.caa.co.uk/application.aspx?catid=33&pagetype=65&appid=11&mode=detail&id=415>
- Our Syllabus, no elements optional, taken as a whole leads to an RPQ-s certificate.
- ❖ Terminology may differ but continuation of the CAA approval is dependant upon covering the entire syllabus in the way declared to the CAA.



Civil Operator Qualifications

- Edition 6 of CAP 722 introduces a Concept of Operations (ConOps) approach for UAS and moves away from a mass centric classification approach. In doing so it describes how UAS operations should be approached so that all functional areas of the operations are considered.
- <https://www.easa.europa.eu/easa-and-you/key-topics/civil-drones-rpas>
- EASA too following '[Concept of Operations](#)', safety requirements are in relation to the risk an activity poses to the operator and to third parties (e.g. general public). The greater the risk the higher the requirements.



Basic Requirements

- The CAA ConOps philosophy aims to ensure that the public and other airspace users are not exposed to unacceptable risk introduced by UAS commercial operations.
- The CAA approach is to categorise UAS and the intended operations; all operations will fall into either category A, B or C. or Open, Specific and Certified
- The term 'Technical Complexity' is used to describe how complex the system is; whereas the term 'Operating Environment Complexity' describes how complex the environment is.
- There are scenarios that are not described which will require differing levels of assessment.



Permission for Aerial Work

- Standard' permissions will not list specific types (models) but will grant permission to fly any SUA within one or more of the following classes:
- SUA multicopter with a maximum take-off mass (MTOM) not exceeding 7 kg.
- SUA multicopter with a MTOM greater than 7 kg but not exceeding 20 kg.
- SUA fixed-wing with a MTOM not exceeding 7 kg.
- SUA fixed-wing with a MTOM greater than 7 kg but not exceeding 20 kg.
- Within each class, the applicant will be free to vary or add SUA as they wish without the requirement to undertake a practical flight assessment for each individual machine or when adding or changing to a new type (model).



Application Process

- Applications for an exemption or permission should be made using the application form (www.caa.co.uk/SRG1320).
- For submission of applications E-mail: uas@resourcegroup.co.uk or apply@caa.co.uk with a Certificate of Recommendation for a UK CAA Permissions for a Qualified Entity.

CAA application costs – Official record series 5, CAA scheme of charges
www.caa.co.uk/docs/33/282GA.pdf

Aircraft weight category	Initial application charge	Renewal application charge
7kg or less	£112.00	£56.00
Greater than 7kg – 20kg	£224.00	£112.00



Data Protection

<https://ico.org.uk/for-the-public/drones/>



Summary

- Although RPAS operations are increasing rapidly they're still very much in their infancy across the world.
- SUA/SUSA (RPAS platforms with MTOM of 20kg) is expected to remain under national regulation (UK CAA) when ICAO and EASA issue the regulatory way forward.
- CAP 722 is a guidance document which is designed to cover all RPAS platforms. The UK CAA are very much of the mind of a “light touch” policy for SUA/SUSA, but still regulated.
- Ultimately your goal is the issue of your PFAW. You need to identify how and why an RPAS will assist you. What platform best suits that need, how you intend to fly it and finally get an Assessment & Recommendation from a **National Qualified Entity**



Do you have any questions?



Neil Williams Resource Group
Head of UAS



How the University of Worcester is using this technology

Worcester Business School is using drones in seminars to bring employability skills to students

- Media Lab (students work on commercial projects)
- Several computing and business modules teach students programming, commercial use, piloting skills, video and photo skills
- Computing students researching drone security

Geography Department

Journalism Department

Paramedics? Sport? Art?

Discussion

Research and Collaborative Opportunities

Demo

Drone Types, Features and Prices

Flight Demonstration

Buzzwords and Abbreviations

FPV

RTH

Headless

4k

GPS

Height Hold

HD

Lightbridge

Thank You

Questions and Answers